

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 103 (DORSEY ROAD) AND COCA-COLA DRIVE IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FOURTH LEG TO THE INTERSECTION. MD 103 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR EASTBOUND MD 103. THE INTERSECTION WILL NOW OPERATE IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR EASTBOUND MD 103 AND SIDE STREET SPLIT PHASING.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
3 CY	TEST PIT EXCAVATION
5305 LF	5 INCH HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
160 LF	12 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
110 LF	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
5 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS "ONLY"
14 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
65 LF	REMOVE EXISTING PAVEMENT MARKING
1 EA	CONTROLLER AND CABINET - BASE MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT
1 EA	FOUR-CHANNEL, TIME- DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
32 EA	12 INCH LED SIGNAL HEAD SECTION
9 EA	8 INCH LED SIGNAL HEAD SECTION
12 CY	CONCRETE FOUNDATION FOR SIGNAL
2 EA	27 FT. TWIN MAST ARM POLE & 50FT/60 FT MAST ARMS
2 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
10 EA	ELECTRICAL HANDHOLE
30 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
40 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
170 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
735 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
170 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
3 EA	VIDEO DETECTION CAMERA AND CABLE
165 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
15 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
650 LF	12-PAIR COMMUNICATION CABLE
50 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
130 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1385 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
375 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
300 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
5 EA	3/4 IN. X 10 FT. GROUND ROD
4 EA	NON-INVASIVE MICRO-LOOP PROBE
3 EA	D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
2 EA	M1-5(6) (48" X 72") SIGN - POLE MOUNT
2 EA	M1-5(6) (30" X 48") SIGN - POLE MOUNT
1 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-6(1) (30" X 30") SIGN - MAST ARM MOUNT
2 EA	R3-SR (30" X 36") SIGN - MAST ARM MOUNT
2 EA	R4-7 (24" X 30") SIGN - GROUND MOUNT
1 EA	M3-3 (24" X 12") SIGN - GROUND MOUNT
1 EA	M1-5 (30" X 24") SIGN - GROUND MOUNT
1 EA	R3-SL /R3-6(1) (54" X 30") SIGN - GROUND MOUNT
2 EA	R3-7R (48" X 48") SIGN - GROUND MOUNT
2 EA	R3-7L (48" X 48") SIGN - GROUND MOUNT
6 EA	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
1 EA	REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
1 EA	METERED SERVICE PEDESTAL - EMBEDDED

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION 7491 CONNELLEY DRIVE, HANOVER, MD 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST 3 DAYS IN ADVANCE OF DELIVERY.

QUANTITY	DESCRIPTION
1 EA	CONTROLLER AND MMU/CONFLICT MONITOR

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002
MR. MIKE HUBER UTILITY ENGINEER (410) 841-1039	MS. DANA GUIDRY ACCESS PERMIT INSPECTOR (410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

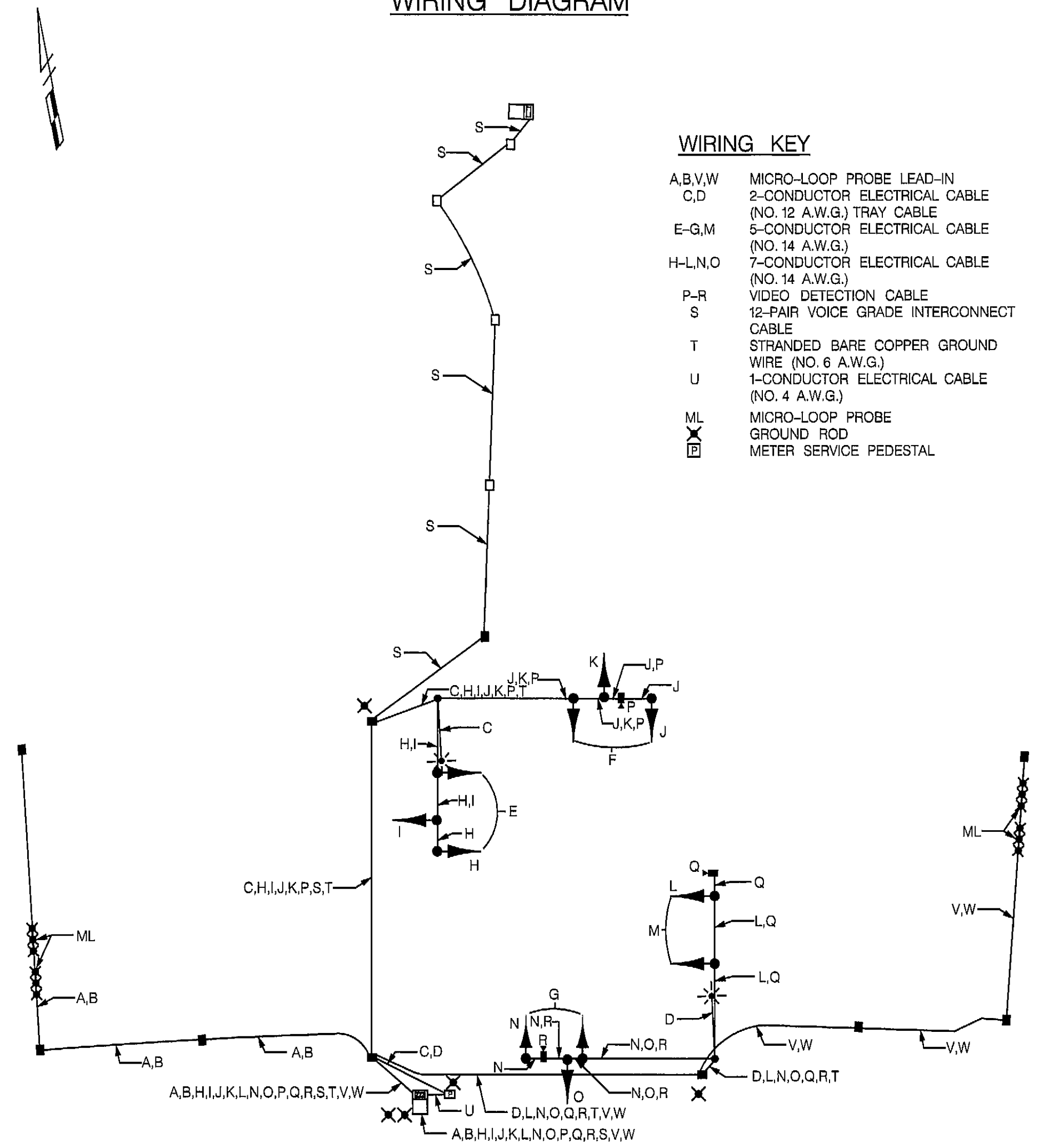
MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 & 5	R	R	G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	G	G	G	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	G	G	G
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y
PHASE 4	R	R	R	R	R	G	G	G	R	R	R
4 CHANGE	R	R	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



SCALE 1" = 20'

W.B. MD 100
RAMP

COCA COLA DRIVE

CONSTRUCTION DETAILS
SEE SIGNAL PLAN

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473

EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

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DATE: Tuesday, June 15, 2010 AT 02:38 PM

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 103 (DORSEY ROAD) AND
COCA COLA DRIVE

GENERAL INFORMATION PLAN

SCALE AS SHOWN DATE 12-14-09 CONTRACT NO. BW996/M82

DESIGNED BY	J.K. SCHMID	COUNTY	ANNE ARUNDEL
DRAWN BY	J.K. SCHMID	LOGMILE	02010300.46
CHECKED BY	T. ZAYDEL	T.I.M.S. NO.	K-398
F.A.P. NO.	NA	TOD NO.	

DRAWING NO. TS- 2593 B GI SHEET NO. 2 OF 3